

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for determining sleep stages of an examinee, the method comprising:
 - detecting signals of the examinee with a biosignal detector;
 - calculating a signal strength obtained as a reciprocal of a coefficient obtained by gain-controlling the detected signals such that amplitude of the detected signals does not exceed an upper limit threshold or is not below a lower limit threshold;
 - calculating a signal strength variance value that indicates variation of ~~a signal strength of the detected signals~~ the calculated signal strength; and
 - determining a sleep stage by using the signal strength variance value or a value derived from the signal strength variance value as an indicator value.
2. (Previously Presented) The method for determining sleep stages of an examinee according to claim 1, wherein the indicator value is the signal strength variance value detected in a predetermined time period.
3. (Previously Presented) The method for determining sleep stages of an examinee according to claim 1, wherein the indicator value is a signal of a difference between the signal strength variance value detected in a predetermined time period and a moving average of the variance value.
4. (Previously Presented) The method for determining sleep stages of an examinee according to claim 1, wherein the indicator value is a moving average calculated from the signal strength variance value detected in a predetermined time period.
5. (Previously Presented) The method for determining sleep stages of an examinee according to claim 1, wherein a signal strength variance signal value obtained by

removing abnormal values from the signal strength variance value or a value derived from the signal strength variance value is used as the indicator value.

6. (Canceled)

7. (Previously Presented) The method for determining sleep stages of an examinee according to claim 1, wherein the biosignal detector is a non-invasive biosignal detector.

8. (Previously Presented) The method for determining sleep stages of an examinee according to claim 7, wherein the biosignal detector comprises:

a pressure detection tube

a pressure detection sensor; and

a biosignal extractor, wherein the biosignal extractor extracts biosignals from a pressure variation detected by the pressure detection sensor.

9. (Previously Presented) The method for determining sleep stages of an examinee according to claim 1, wherein the biosignal detector is a heartbeat signal detector, such as at least one of an electrocardiograph and a pulse rate meter.